

Atty Dkt. No.: 10992125-2  
USSN: 10/036,999

IN THE CLAIMS

1. (PREVIOUSLY PRESENTED) A method comprising:
  - (a) scanning an interrogating light across multiple sites on an array package including an addressable array of multiple features of different moieties, which scanned sites include multiple features of the array;
  - (b) detecting signals from respective scanned sites emitted in response to the interrogating light; and
  - (c) decreasing power of the interrogating light for a first site on the array package during the scanning wherein the first site is outside an area occupied by the array.
2. (PREVIOUSLY PRESENTED) A method according to claim 18 wherein the interrogating light power is reduced based on a determination that the emitted signal from the first site will exceed a predetermined value.
3. (PREVIOUSLY PRESENTED) A method according to claim 18 wherein the interrogating light power is increased based on a determination that the emitted signal from the first site will be below a predetermined value.
4. (ORIGINAL) A method according to claim 3 wherein the determination is based on the emitted signal detected from the first site.
5. (PREVIOUSLY PRESENTED) A method comprising:
  - (a) scanning an interrogating light across multiple sites on an array package including an addressable array of multiple features of different moieties, which scanned sites include multiple features of the array;
  - (b) detecting signals from respective scanned sites emitted in response to the interrogating light; and
  - (c) altering power of the interrogating light for a first site on the array package during scanning;  
wherein the first site is an array feature; and  
wherein the interrogating light power is altered based on the signal emitted from the first site, when the interrogating light initially illuminates the first site.
6. (CANCELED)

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7. (CURRENTLY AMENDED) A method comprising:  
(a) prior to scanning an interrogating light across an array package, calibrating an interrogating light power versus a control signal characteristic, from a light system which provides the interrogating light of a power which varies in response to the control signal characteristic;  
(b) following step (a), scanning the interrogating light across multiple sites on an array package including an addressable array of multiple features of different moieties, which scanned sites include multiple features of the array;  
(c) detecting signals from respective scanned sites emitted in response to the interrogating light; and  
(d) altering the interrogating light power for a first site on the array package during the array scanning using the calibration of step (a), based on location of the first site or on a determination that the emitted signal from the first site will be outside a predetermined range absent the altering.
8. (ORIGINAL) A method according to claim 7 additionally comprising repeating steps (a) through (d) for each of multiple array packages.
9. (ORIGINAL) A method according to claim 7 wherein the light system includes a light source and an optical attenuator through which light from the source passes to provide the interrogating light, and wherein the control signal comprises a signal for the optical attenuator which provides variable attenuation in response to the characteristic of the control signal.
10. (ORIGINAL) A method according to claim 7 wherein the interrogating light power is reduced based on a determination that the emitted signal from the first site will exceed a predetermined value.
11. (ORIGINAL) A method according to claim 10 wherein the determination is based on the emitted signal detected from the first site.
12. – 17. (CANCELLED)
18. (PREVIOUSLY PRESENTED) A method comprising:  
(a) scanning an interrogating light across multiple sites on an array package including an addressable array of multiple features of different moieties, which scanned sites include multiple features of the array;

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(b) detecting signals from respective scanned sites emitted in response to the interrogating light; and  
(c) altering power of the interrogating light for a first site on the array package during array scanning based on location of the first site or on a determination that the emitted signal from the first site will be outside a predetermined intensity range absent the altering;

wherein the interrogating light power is altered during a row scan of the interrogating light.

19. (PREVIOUSLY PRESENTED) A method according to claim 18 wherein the sites are multiple features of the array arranged in rows.

20. (PREVIOUSLY PRESENTED) A method according to claim 18 wherein the interrogating light is scanned row by row across the array package.